Amendments to the Claims:

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) An artificial ear comprising: a sending unit ~~(2)~~ configured to convert a sound having a predetermined frequency into an electric signal and send the electric signal; and a reception unit ~~(3)~~ configured to receive the sent electric signal and apply it to a predetermined nerve in a cochlea, ~~characterized in that~~ wherein:

said sending unit ~~(2)~~ includes:

a plurality of resonators ~~(21b)~~ which have resonant frequencies different from each other and vibrate with sounds having same frequencies as the resonant frequencies;

a conversion section ~~(21)~~ configured to convert vibration of each of said plurality of resonators ~~(21b)~~ into a signal corresponding to level of the vibration; and

a sending section ~~(28)~~ configured to send a predetermined signal among signals converted by said conversion section ~~(21)~~ to said reception unit ~~(3),~~; and

said reception unit ~~(3)~~ includes:

a plurality of electrodes ~~(4a)~~ which are connected to nerves present in the cochlea and each corresponding to different frequencies from each other; and

a supply section ~~(34)~~ configured to supply a signal supplied from said sending section ~~(28)~~ to a predetermined electrode among said plurality of electrodes ~~(4a)~~ thereby stimulating a nerve corresponding to a predetermined frequency [[,]] ; and

said plurality of resonators ~~(21b)~~ have their ends at one side held independent from each other.

2. (Currently Amended) The artificial ear according to claim 1, ~~characterized in that~~ wherein said sending unit ~~(2)~~ further includes an amplifying section ~~(22)~~ configured to amplify a signal converted by said conversion section ~~(21)~~ by a gain which varies in accordance with the respective resonant frequencies possessed by said plurality of resonators ~~(21b)~~.

3. (Currently Amended) The artificial ear according to claim 2, ~~characterized in that~~ wherein said sending section ~~(28)~~ includes a first selection section ~~(23)~~ configured to select a signal to be sent to said reception unit ~~(3)~~ from signals amplified by said amplifying section ~~(22)~~.

4. (Currently Amended) The artificial ear according to claim 3, ~~characterized in that~~ wherein said supply section ~~(34)~~ includes a second selection section ~~(32)~~ configured to select an electrode ~~(4a)~~ to which a signal from said sending section ~~(28)~~ is to be supplied.

5. (Currently Amended) The artificial ear according to claim 4, ~~characterized in that~~ wherein:

said sending section ~~(28)~~ sends a start signal representing a start of operation by said first selection section ~~(23)~~ and an end signal representing an end of operation by said first selection section ~~(23)~~ to said reception unit ~~(3)~~ in order to synchronize selection operations of said first selection section ~~(23)~~ and second selection section ~~(32)~~ with each other [[,]] ; and

said second selection section ~~(32)~~ starts operating in response to the start signal and finishes operating in response to the end signal.

6. (Currently Amended) The artificial ear according to claim 2, ~~characterized in that~~ wherein said sending unit ~~(2)~~ further includes a storage section ~~(25)~~ configured to store gains for the respective resonant frequencies possessed by said plurality of resonators ~~(21b)~~.

7. (Currently Amended) The artificial ear according to claim 1, ~~characterized in that~~ wherein said plurality of resonators ~~(21b)~~ have their ends at the other side connected to a support shaft ~~(21a)~~ and supported by said support shaft ~~(21a)~~.

8. (Currently Amended) The artificial ear according to claim 7, ~~characterized in that~~ said plurality of resonators ~~(21b)~~ are arranged on both sides of said support shaft ~~(21a)~~.

9. (Currently Amended) The artificial ear according to claim 8, ~~characterized in that~~ wherein said plurality of resonators ~~(21b)~~ have different lengths from each other and are arranged on said support shaft ~~(21a)~~ in an order of a larger length to a smaller length from one end toward the other end of said support shaft ~~(21a)~~.